

3620 WA



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/089,787

DATE: 11/18/2002

TIME: 15:15:14

Input Set : A:\20522p.txt

Output Set: N:\CRF4\11182002\J089787.raw

4 <110> APPLICANT: El-Sherbeini, Mohamed
 5 Azzolina, Barbara A.
 7 <120> TITLE OF INVENTION: MraY GENE AND ENZYME OF PSEUDOMONAS
 8 AERUGINOSA
 10 <130> FILE REFERENCE: 20522P
 12 <140> CURRENT APPLICATION NUMBER: 10/089,787
 13 <141> CURRENT FILING DATE: 2002-04-03
 15 <150> PRIOR APPLICATION NUMBER: PCT/US00/27056
 16 <151> PRIOR FILING DATE: 2000-09-29
 18 <150> PRIOR APPLICATION NUMBER: 60/157,580
 19 <151> PRIOR FILING DATE: 1999-10-04
 21 <160> NUMBER OF SEQ ID NOS: 4
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 1083
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Pseudomonas Aeruginosa
 30 <400> SEQUENCE: 1
 31 atgctcctgc tgctggccga atacctgcaa cagttctaca agggcttcgg cgtcttccag 60
 32 tacctgacc tgcgcggcat tctcagcgta ctcaccgcgc tgctcgctgc gctgtggctg 120
 33 gggccctgga tgatccgtac cttgcagatc ccccaagatcg gccaggccgt gcgcAACGAC 180
 34 ggtccgcagt cgcacctgtc gaagaaggc accccgacca tgggcggcgc cctgatcctt 240
 35 accgcctata gcatcagcac gctgctgtgg gcggatctt ccaaccgcta cgtgtggta 300
 36 gtgtggctcg ttaccctgtc gttcggtgcc atcgctggg tagacgacta ccgcaagggtg 360
 37 atcgagaaga actcccggtg cctgcccggc cgcttggaaat acttctggca gtcgggtgttc 420
 38 ggcattcgccg cccgcgtgtt cctctacatg actgcccggaaa ccccgatcga gaccaccctg 480
 39 atcggtccga tgctgaagag cgtcgagatc cagttggca tcttcttcgt ggtcctgacc 540
 40 tacttcgtca tcgtcggctc gagcaatgca gtgaacctca ccgacgggtct cgacggcctg 600
 41 ggcattcgatgc cgacgtaat gttggccggc gcgcgtggca tcttctgtca cctgtcgggc 660
 42 aacgtgaagt tcgcccggta cctgtgtatt cccaaacgtac cgggcggccgg cgagctgatc 720
 43 gtgttctcgcc cccgcgtgtt cggcgccggc ctgcgttcc tctggttcaa cacctatccg 780
 44 ggcgcagggtct tcatggcga ctgcggcggc ctggcgctgg gcgcggcgct gggcaccatc 840
 45 gccgtgatcg tgcgcggaga gatcggtctg ttcatcatgg gtgggggtgtt cgtcatggaa 900
 46 accctctcggt tgatgtatcca ggtcgcttcc ttcaagctga ccggacggccg cgtcttcgt 960
 47 atggcgccga tccatcacca ttgcgaactg aaaggctggc cggacccggc cgtgatcg 1020
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 49 tga
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 52 <211> LENGTH: 360
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Pseudomonas Aeruginosa
 56 <400> SEQUENCE: 2
 57 Met Leu Leu Leu Ala Glu Tyr Leu Gln Gln Phe Tyr Lys Gly Phe

ENTERED

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58 1 5 10 15
 59 Gly Val Phe Gln Tyr Leu Thr Leu Arg Gly Ile Leu Ser Val Leu Thr
 60 20 25 30
 61 Ala Leu Ser Leu Ser Leu Trp Leu Gly Pro Trp Met Ile Arg Thr Leu
 62 35 40 45
 63 Gln Ile Pro Gln Ile Gly Gln Ala Val Arg Asn Asp Gly Pro Gln Ser
 64 50 55 60
 65 His Leu Ser Lys Lys Gly Thr Pro Thr Met Gly Gly Ala Leu Ile Leu
 66 65 70 75 80
 67 Thr Ala Ile Ala Ile Ser Thr Leu Leu Trp Ala Asp Leu Ser Asn Arg
 68 85 90 95
 69 Tyr Val Trp Val Val Leu Val Val Thr Leu Leu Phe Gly Ala Ile Gly
 70 100 105 110
 71 Trp Val Asp Asp Tyr Arg Lys Val Ile Glu Lys Asn Ser Arg Gly Leu
 72 115 120 125
 73 Pro Ser Arg Trp Lys Tyr Phe Trp Gln Ser Val Phe Gly Ile Gly Ala
 74 130 135 140
 75 Ala Val Phe Leu Tyr Met Thr Ala Glu Thr Pro Ile Glu Thr Thr Leu
 76 145 150 155 160
 77 Ile Val Pro Met Leu Lys Ser Val Glu Ile Gln Leu Gly Ile Phe Phe
 78 165 170 175
 79 Val Val Leu Thr Tyr Phe Val Ile Val Gly Ser Ser Asn Ala Val Asn
 80 180 185 190
 81 Leu Thr Asp Gly Leu Asp Gly Leu Ala Ile Met Pro Thr Val Met Val
 82 195 200 205
 83 Ala Gly Ala Leu Gly Ile Phe Cys Tyr Leu Ser Gly Asn Val Lys Phe
 84 210 215 220
 85 Ala Glu Tyr Leu Leu Ile Pro Asn Val Pro Gly Ala Gly Glu Leu Ile
 86 225 230 235 240
 87 Val Phe Cys Ala Ala Leu Val Gly Ala Gly Leu Gly Phe Leu Trp Phe
 88 245 250 255
 89 Asn Thr Tyr Pro Ala Gln Val Phe Met Gly Asp Val Gly Ala Leu Ala
 90 260 265 270
 91 Leu Gly Ala Ala Leu Gly Thr Ile Ala Val Ile Val Arg Gln Glu Ile
 92 275 280 285
 93 Val Leu Phe Ile Met Gly Gly Val Phe Val Met Glu Thr Leu Ser Val
 94 290 295 300
 95 Met Ile Gln Val Ala Ser Phe Lys Leu Thr Gly Arg Arg Val Phe Arg
 96 305 310 315 320
 97 Met Ala Pro Ile His His Phe Glu Leu Lys Gly Trp Pro Asp Pro
 98 325 330 335
 99 Arg Val Ile Val Arg Phe Trp Ile Ile Thr Val Ile Leu Val Leu Ile
 100 340 345 350
 101 Gly Leu Ala Thr Leu Lys Leu Arg
 102 355 360
 104 <210> SEQ ID NO: 3
 105 <211> LENGTH: 29
 106 <212> TYPE: DNA
 107 <213> ORGANISM: Artificial Sequence

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109 <220> FEATURE:
110 <223> OTHER INFORMATION: PCR Primer
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116 <211> LENGTH: 27
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: PCR Primer
123 <400> SEQUENCE: 4
124 ttggatcctc aacgcagtt caaggtg 27

VERIFICATION SUMMARY

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